

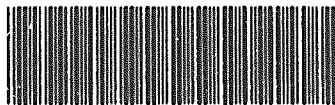
8EHQ-0997-14015



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August 27, 1997



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Attention: (8e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency  
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Ladies and Gentlemen:

Subject: Notice in Accordance to TSCA Section 8(e) - LC50 Study on Zebra fish  
with Fanal Blue GM (CAS No. 68083-42-1).

BASF Corporation is submitting the results of an acute static LC<sub>50</sub> study with Fanal Blue GM on the zebra fish (*Brachydanio rerio*) conducted by BASF Aktiengesellschaft, Ludwigshafen, Germany.

The determination of the acute toxicity on the zebra fish was performed following the OECD 203 Guideline (adopted April 4, 1984, considering the updated version, adopted July 1992), using a static system. This guideline also covers the requirements of the EEC Directive 84/449, C.I., adopted April 4, 1984: "Acute toxicity for fish" including the updated version, adopted July 1992.

Ten fish per concentration or control were used. The study duration was about 96 hours (= 4 days). The test temperature was 22-23° C; the water hardness as about 2.5 mol/l. The solubility in water is reported to be <1mg/l.

Analytical concentration controls were performed about 1 hour after placing the fish into the test water and at the end of the study after about 96 hours. The recovery was about zero (lower concentrations) to about 19 to 24% (higher concentrations) of the nominal values at the beginning and zero % after 96 hours.

The following results were obtained in the acute study on the zebra fish (semi-static procedure):

The exposure to nominal Fanal Blue GM concentrations of 0; 0.10; 0.215; 0.464; 1.0 and 2.150 mg/l resulted in:

LC <sub>50</sub>	(96 hours)	=	0.253 mg/l (slope factor 1.53)
NOEC	(96 hours)	=	0.1 mg/l
LC <sub>0</sub>	(96 hours)	=	0.1 mg/l
LC <sub>100</sub>	(96 hours)	=	1.0 mg/l

Toxic symptoms observed were: apathy, slight to very slight tumbling and swimming near the water surface.

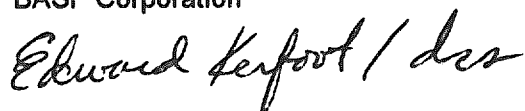
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These values indicate that Fanal Blue GM exerts relatively high acute toxicity for fish according to current criteria for TSCA 8(e) submission. Although BASF Corporation does not feel that the information presents a substantial risk to health or environment or an unexpected result, it is being submitted under Section 8(e) of TSCA. Any reports or additional information that we receive will be forwarded to the Agency. All Material Safety Data Sheets will be updated with this preliminary information.

If you have any questions, please feel free to call me at (313) 246-6207.

Very Truly Yours,

BASF Corporation

A handwritten signature in black ink that reads "Edward Kerfoot / des". The signature is written in a cursive, flowing style.

Edward J. Kerfoot, Ph.D.  
Director, Toxicology and Product Regulations

**Best Available Copy**